

Shasta Lake Enlargement
Project Specific Reporting Metrics

				Base	Scenarios:					
					1		2		3	
					Water Supply, 6.5' Raise		Water Supply, 18.5' Raise		Water Supply and Anadromous Fish, 18.5' Raise	
				Value	Value	Difference	Value	Difference	Value	Difference
Water Supply Reliability										
Sacramento Valley										
CVP Ag	Contract Delivery	(TAF/year)	Dry & Critical	117	131	14	140	23	152	35
CVP M&I	Contract Delivery	(TAF/year)	Dry & Critical	178	180	2	183	5	184	6
Bay Area										
CVP Ag	Contract Delivery	(TAF/year)	Dry & Critical	25	27	2	28	3	29	4
CVP M&I	Contract Delivery	(TAF/year)	Dry & Critical	248	250	2	251	3	252	4
SWP M&I	Contract Delivery ¹	(TAF/year)	Dry & Critical	147	148	1	148	1	148	1
San Joaquin Valley (not including San Joaquin River and its tributarys' water users)										
CVP Ag	Contract Delivery	(TAF/year)	Dry & Critical	668	726	58	755	88	776	108
CVP M&I	Contract Delivery	(TAF/year)	Dry & Critical	12	12	0	12	0	13	1
SWP Ag	Contract Delivery ¹	(TAF/year)	Dry & Critical	650	653	3	658	8	658	8
Groundwater Banking	Delivery	(TAF/year)	Dry & Critical	11	9	-2	10	0	10	-1
South and Central Coast										
SWP M&I	Contract Delivery ¹	(TAF/year)	Dry & Critical	1,557	1,560	3	1,564	7	1,562	5
Total For All Regions										
Ag, M&I and GW Banking	Delivery	(TAF/year)	Dry & Critical	3,613	3,696	84	3,750	137	3,784	171
Ecosystem										
Trinity River										
Lewiston Dam	Apr-Oct Temp	(%)	Long Term	2.3	2.3	0.0	1.6	-0.7	2.1	-0.2
	greater than 60° F	(%)	Dry & Critical	5.5	5.5	0.0	3.6	-1.9	5.2	-0.3
Douglas City	Apr-Oct Temp	(%)	Long Term	7.6	6.4	-1.2	6.1	-1.5	6.3	-1.3
	greater than 56° F	(%)	Dry & Critical	14.5	13.5	-1.0	12.5	-2.0	13.2	-1.3
Lewiston Dam to the North Fork	Apr-Oct Temp	(%)	Long Term	12.2	12.1	-0.1	11.1	-1.1	11.9	-0.3
	greater than 60° F	(%)	Dry & Critical	20.4	20.8	0.4	18.5	-1.9	20.6	0.2
below Igo	Apr-Oct Temp	(%)	Long Term	36.5	34.5	-2.0	35.1	-1.4	35.1	-1.4
	greater than 56° F	(%)	Dry & Critical	44.4	43.4	-1.0	44.4	0.0	43.9	-0.5
Clear Creek										
below Igo	Apr-Oct Temp	(%)	Long Term	1.2	1.4	0.2	1.0	-0.2	1.7	0.5
	greater than 60° F	(%)	Dry & Critical	3.2	3.7	0.5	2.6	-0.6	4.3	1.1
Sacramento River	Apr-Oct Temp	(%)	Long Term	11.5	12.1	0.6	11.7	0.2	12.3	0.8
	greater than 56° F	(%)	Dry & Critical	15.9	15.5	-0.4	13.5	-2.4	15.0	-0.9
Balls Ferry										
Jellys Ferry	Apr-Oct Temp	(%)	Long Term	8.6	8.1	-0.5	7.4	-1.2	7.7	-0.9
	greater than 60° F	(%)	Dry & Critical	20.0	19.0	-1.0	16.4	-3.6	18.0	-2.0
Bend Bridge	Apr-Sep Temp	(%)	Long Term	17.8	16.2	-1.6	14.3	-3.5	14.8	-3.0
	greater than 56° F	(%)	Dry & Critical	31.8	30.9	-0.9	28.7	-3.1	30.2	-1.6
Sacramento River - Keswick Dam to Princeton	Apr-Oct Temp	(%)	Long Term	10.5	9.7	-0.8	8.1	-2.4	9.3	-1.2
	greater than 60° F	(%)	Dry & Critical	23.8	23.3	-0.5	19.0	-4.8	22.2	-1.6
Feather River - Fish Dam to Honcut Creek	Apr-Sep Temp	(%)	Long Term	31.7	28.0	-3.7	26.9	-4.8	26.4	-5.3
	greater than 56° F	(%)	Dry & Critical	42.6	41.4	-1.2	40.4	-2.2	40.1	-2.5
Feather River - Fish Dam to Honcut Creek	Apr-Oct Temp	(%)	Long Term	11.3	10.9	-0.4	9.0	-2.3	9.4	-1.9
	greater than 60° F	(%)	Dry & Critical	25.4	25.1	-0.3	21.5	-3.9	22.5	-2.9
American River - Nimbus Dam to Watt Avenue	Apr-Sep Temp	(%)	Long Term	40.7	37.7	-3.0	34.0	-6.7	33.8	-6.9
	greater than 56° F	(%)	Dry & Critical	47.5	46.9	-0.6	44.4	-3.1	43.2	-4.3
Sacramento River - Keswick Dam to Princeton	Salmon Mortality	(%)	Long Term	21.6	20.0	-1.6	17.7	-3.9	17.9	-3.7
	Fall Run	(%)	Dry & Critical	29.8	29.6	-0.2	28.0	-1.8	28.4	-1.4
Feather River - Fish Dam to Honcut Creek	Salmon Mortality	(%)	Long Term	1.7	1.5	-0.2	1.4	-0.3	1.4	-0.3
	Late-Fall Run	(%)	Dry & Critical	2.1	2.0	-0.1	2.0	-0.1	1.9	-0.2
Feather River - Fish Dam to Honcut Creek	Salmon Mortality	(%)	Long Term	10.2	10.1	-0.1	9.7	-0.5	10.1	-0.1
	Winter Run	(%)	Dry & Critical	26.0	25.7	-0.3	24.6	-1.4	25.6	-0.4
Feather River - Fish Dam to Honcut Creek	Salmon Mortality	(%)	Long Term	35.3	33.0	-2.3	27.9	-7.4	29.1	-6.2
	Spring Run	(%)	Dry & Critical	66.1	65.3	-0.8	57.1	-9.0	59.9	-6.2
Feather River										
below Thermalito Afterbay	Apr-Oct Temp	(%)	Long Term	46.2	46.6	0.4	46.8	0.6	47.2	1.0
	greater than 65° F	(%)	Dry & Critical	51.3	51.3	0.0	51.3	0.0	52.4	1.1
Feather River - Fish Dam to Honcut Creek	Apr-Oct Temp	(%)	Long Term	76.6	76.8	0.2	76.6	0.0	76.6	0.0
	greater than 60° F	(%)	Dry & Critical	79.0	79.5	0.5	79.5	0.5	79.5	0.5
American River - Nimbus Dam to Watt Avenue	Salmon Mortality	(%)	Long Term	2.2	2.2	0.0	2.2	0.0	2.3	0.1
	Dry & Critical	(%)	Long Term	2.9	2.9	0.0	2.9	0.0	2.9	0.0
American River										
below Nimbus Dam	Apr-Oct Temp	(%)	Long Term	52.8	53.4	0.6	53.6	0.8	52.8	0.0
	greater than 65° F	(%)	Dry & Critical	63.0	62.6	-0.4	62.7	-0.3	63.0	0.0
Watt Avenue	Apr-Oct Temp	(%)	Long Term	57.1	56.9	-0.2	56.9	-0.2	56.9	-0.2
	greater than 65° F	(%)	Dry & Critical	65.5	65.4	-0.1	65.5	0.0	65.5	0.0
American River - Nimbus Dam to Watt Avenue	Salmon Mortality	(%)	Long Term	17.1	16.9	-0.2	16.8	-0.3	16.9	-0.2
	Dry & Critical	(%)	Long Term	19.4	19.4	0.0	19.3	-0.1	19.4	0.0
Power										
CVP										
Shasta Power Plant	Total Generation	(GWh/year)	Long Term	1,948	1,978	31	2,014	67	2,012	64
			Dry & Critical	1,457	1,495	38	1,550	92	1,547	90
System Total ²	Net Generation	(GWh/year)	Long Term	3,401	3,412	11	3,437	36	3,431	30
	(Gen minus pump)		Dry & Critical	2,559	2,551	-8	2,553	-6	2,539	-20

Notes:

¹Includes Article 21 deliveries

"Salmon mortality" is the percentage of early life-stage salmon mortality due to water temperature

"Dry & Critical" is a water year average of all dry and critical year results based on the Sac Valley index (40-30-30 index)